

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Colin Barnitz (Reg. No. 35,061) on 2/23/2011.

IN THE CLAIMS

Please amend claim 59 as follows:

59. Computer storage media, wherein the media is not a signal, having executable instructions stored thereon, the instructions, when executed by one or more processors, implementing a module to perform the following operations:

compressing data at a first computing device by finding an index in a lookup table that matches an initial sequence in the data, the lookup table comprising a plurality of entries, each said entry being discoverable utilizing a particular one of a plurality of said indices, each said entry referencing whether a corresponding said index is located in a history buffer, and if so, further references one or more locations of the corresponding said index in the history buffer;

when the corresponding said entry of the matching index references a plurality of said locations:

for each said location, comparing a sequence at the location having the matching index with a sequence in the data, said sequence including the initial sequence;

deriving a matching sequence from the comparison based on at least one of a length and the location of the sequence at each said location;

representing the matching sequence using a representation that includes the length and the location of the matching sequence in the history buffer;

forming compressed data that includes at least one of said representations;

further compressing the compressed data by encoding the at least one representation that includes the length and the location of the matching sequence, the at least one representation being encoded using a first Huffman table for encoding the length using Huffman encoding;

using a last recently used (LRU) table for encoding the location of the matching sequence in the history buffer, the LRU table listing a plurality of recently used locations of recent matching sequences;

when the location of the matching sequence is not in the LRU table, encoding the location of the matching sequence with Huffman encoding using a second Huffman table, different from the first Huffman table;

using the second Huffman table to also compress literal sequences that have no matching index in the history buffer; and

streaming the compressed data over a network to a second computing device.

Reasons for Allowance

2. The following is an examiner's statement of reasons for allowance: the closest prior art of record (Whiting et al. US 5,146,211; Vidal et al. US 2002/0078241) do not teach nor suggest in detail "further compressing the compressed data by encoding the at least one representation that includes the length and the location of the matching sequence, the at least one representation being encoded using a first Huffman table for encoding the length using Huffman encoding using a last recently used (LRU) table for

encoding the location of the matching sequence in the history buffer, the LRU table listing a plurality of recently used locations of recent matching sequences" in combination with all the elements of each independent claim as argued by Applicant (see Remarks of 12/15/2010, p. 24). Whiting-Vidal only teaches compressing data using history buffers and Huffman encoding, whereas, as stated above, Applicant's claimed invention states a narrower method using multiple Huffman tables and a LRU table. So as indicated by the above statements, Applicant's arguments have been considered persuasive, in light of the claim limitations as well as the enabling portions of the specification.

3. The dependent claims further limit the independent claims and are considered allowable on the same basis as the independent claims as well as for the further limitations set forth.

4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Claims 1-11, 47-78 are allowed.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to CARLOS R. PEREZ TORO whose telephone number is (571) 270-5649. The examiner can normally be reached on Monday-Friday 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William Vaughn can be reached on 571-272-3922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/C. R. P./

Examiner, Art Unit 2444

/William C. Vaughn, Jr./

Supervisory Patent Examiner, Art Unit 2444